



IN THE US PATENT AND TRADEMARK OFFICE

Applicants : Arvind RAMAN et al. February 13, 2003  
For : PIEZOELECTRIC DEVICE WITH FEEDBACK SENSOR  
Serial No. : 09/863 832 Group: 2834  
Filed : May 23, 2001 Ex.: Medley

Atty Docket No.: PU61

Confirmation No. 8978

Assistant Commissioner for Patents  
Washington, D.C. 20231

#8/Amdt A  
TTR:VH  
4-21-03

RESPONSE TO OFFICE ACTION

Dear Sir:

Please amend the above-identified patent application as follows:

IN THE CLAIMS

Amend the claims as follows:

1. (Currently amended) A device for moving a fluid, comprising a movable member having a first piezoelectric actuator element coupled thereto to drive said movable member to move said fluid and a second piezoelectric sensing element coupled thereto to provide feedback signals ~~related to a fluid parameter~~ to a controller that determines from said feedback signals at least one of viscosity, density, and temperature of said fluid and controls said first piezoelectric actuator element in response to at least one of the determined viscosity, density, and temperature of said fluid.

2. (Currently amended) The device of claim 1 wherein said second piezoelectric sensing element provides feedback signals related to fluid viscosity.

3. (Currently amended) The device of claim 1 wherein said second piezoelectric sensing element provides feedback signals related to fluid density.